

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 83   | ((("smart card" smartcard smart-card) same "mass storage") and @ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/01/05 09:16 |
| L4    | 3101 | (235/380.ccls.) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/01/05 10:10 |
| L5    | 127  | (710/13.ccls.) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/01/05 10:06 |
| L6    | 632  | (710/1.ccls.) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/01/05 10:06 |
| L7    | 387  | (710/72.ccls.) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/01/05 10:06 |
| L8    | 949  | (235/382.ccls.) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/01/05 10:06 |
| L9    | 302  | (710/300.ccls.) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/01/05 10:06 |
| L10   | 440  | (711/115.ccls.) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/01/05 10:06 |
| L11   | 343  | (710/302.ccls.) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/01/05 10:06 |

## EAST Search History

|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| L12 | 687 | (710/62.ccls.) and<br>@ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/05 10:06 |
| L13 | 572 | (361/737.ccls.) and<br>@ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/05 10:06 |
| L14 | 906 | (711/103.ccls.) and<br>@ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/05 10:06 |
| L15 | 443 | (710/301.ccls.) and<br>@ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/05 10:07 |
| L16 | 2   | "20010052038".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/05 10:10 |
| S1  | 32  | US-5172338-\$.DID. OR<br>US-5237611-\$.DID. OR<br>US-5388841-\$.DID. OR<br>US-5418752-\$.DID. OR<br>US-5418837-\$.DID. OR<br>US-5428787-\$.DID. OR<br>US-5666516-\$.DID. OR<br>US-5877975-\$.DID. OR<br>US-5923884-\$.DID. OR<br>US-6005942-\$.DID. OR<br>US-6035380-\$.DID. OR<br>US-6047342-\$.DID. OR<br>US-6055314-\$.DID. OR<br>US-6073238-\$.DID. OR<br>US-6092202-\$.DID. OR<br>US-6108236-\$.DID. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 09:48 |
| S2  | 41  | (card same (\$2crypt same<br>\$2compress\$3)) and<br>@ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/04 06:27 |
| S3  | 3   | simitoski.xa.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/04 06:24 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S4  | 4121 | ("smart card" and \$2crypt\$) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/04 13:08 |
| S5  | 1836 | ("smart card" and \$2crypt) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/04 06:28 |
| S6  | 424  | ("smart card" and \$2crypt and flash) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/04 06:28 |
| S7  | 371  | ("smart card" and encrypt and flash) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/04 08:22 |
| S8  | 34   | ("4758714"   "5012074"   "5048085"   "5065429"   "5111030"   "5146499"   "5148481"   "5233547"   "5311450"   "5406624"   "5515440"   "5590199"   "5594227").PN. OR ("5742756"). URPN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2005/01/04 08:15 |
| S9  | 1    | "5850230".pn.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2005/01/04 08:16 |
| S10 | 201  | ("smart card" and encrypt and flash and stream\$3) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/04 14:54 |
| S11 | 1512 | ("nonvolatile ram") and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/04 09:55 |
| S12 | 30   | ("nonvolatile ram".ti.) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/04 10:05 |
| S13 | 145  | ("non-volatile ram".ti.) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/04 10:06 |

## EAST Search History

|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S14 | 85   | ("non-volatile random access memory".ti.) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/04 10:06 |
| S15 | 91   | ("non volatile random access memory".ti.) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/04 10:06 |
| S16 | 236  | S13 S14 S15  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/04 11:15 |
| S19 | 11   | (barlow.in. and microsoft) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/04 13:08 |
| S20 | 321  | ("smart card" and encrypt\$3 and flash and compress\$3) and @ad<"20010802"                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/04 15:03 |
| S21 | 4    | ((("smart card" smartcard smart-card).ti. and encrypt\$3 and flash and compress\$3) and @ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/04 15:18 |
| S22 | 3    | ((("smart card" smartcard smart-card).ti. and streaming) and @ad<"20010802"                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/05 06:28 |
| S23 | 1747 | ((("smart card" smartcard smart-card) and ("public key" public-key)) and @ad<"20010802"                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/05 06:30 |
| S31 | 223  | ((("smart card" smartcard smart-card) and streaming) and @ad<"20010802"                                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/05 07:43 |
| S32 | 23   | ((("smart card" smartcard smart-card) and (\$2crypt\$3 same streaming)) and @ad<"20010802"             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/05 07:54 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S33 | 24   | ((("smart card" smartcard smart-card) and (\$2compress\$3 same streaming)) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/05 07:55 |
| S34 | 2683 | ((((ic smart token) adj card) same stor\$3 same (key)) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/07 11:14 |
| S35 | 94   | ("6079019" "4377853" "5887145"<br>"6126070" "5528758" "5546590"<br>"5574859" "5666495" "5815426"<br>"5928347" "5968158" "6026007"<br>"6067593" "6145046" "6175517"<br>"6219768" "6219768" "6233643"<br>"4371948" "4809185" "5260555"<br>"5341489" "5623637" "5720027"<br>"5818738" "5864825" "5883804"<br>"6080022" "6145739" "6151235"<br>"6824064" "4862350" "4935608"<br>"4954985" "5196682" "5231570"<br>"5243175" "5282247" "5293029"<br>"5371892" "5442704" "5451933"<br>"5475441" "5488523" "5499341"<br>"5530692" "5563655" "5619728"<br>"5623700" "5655092").pn. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/07 06:48 |
| S36 | 2    | (usb with flash same encrypt) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/07 09:24 |
| S37 | 10   | (flash same encrypt same compress) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/07 09:05 |
| S38 | 22   | (card same encrypt same compress) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/07 09:06 |
| S39 | 7    | (usb with encrypt) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/07 09:49 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S40 | 504 | ((ic adj2 card) with memory with portable) and @ad<"20010802"                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/07 09:50 |
| S41 | 93  | ((("ic memory card")) with portable) and @ad<"20010802"                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/07 10:31 |
| S42 | 3   | ((("ic memory card")) same compression same decompression) and @ad<"20010802"            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/07 10:32 |
| S43 | 10  | ((("pc card")) same compression same decompression) and @ad<"20010802"                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/07 10:32 |
| S44 | 335 | ((((ic smart token) adj card) same stream\$3) and @ad<"20010802"                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/07 12:45 |
| S45 | 315 | ((((ic smart token) adj card) same data with buffer) and @ad<"20010802"                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/07 14:06 |
| S46 | 68  | ((((ic smart token) adj card) same "data buffer") and @ad<"20010802"                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/07 15:09 |
| S47 | 169 | ((((ic smart token) adj card) same "voice recognition") and @ad<"20010802"               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/08 11:01 |
| S48 | 629 | ((((ic smart token) adj card) same (navigation map)) and @ad<"20010802"                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/08 11:18 |
| S49 | 535 | ((((ic smart token) adj card) same (navigation map) not "memory map") and @ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/08 12:36 |

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|     |      |                                    |   |    |    |                  |
|-----|------|------------------------------------|---|----|----|------------------|
| S50 | 3014 | (235/380.ccls.) and @ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/08 12:40 |
| S51 | 645  | (710/62.ccls.) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/08 12:43 |
| S52 | 857  | (711/103.ccls.) and @ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/08 12:52 |
| S53 | 276  | (710/300.ccls.) and @ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/08 12:54 |
| S54 | 405  | (710/301.ccls.) and @ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/08 12:59 |
| S55 | 921  | (235/382.ccls.) and @ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/08 13:01 |
| S56 | 362  | (710/72.ccls.) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/08 13:04 |
| S57 | 424  | (711/115.ccls.) and @ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/08 13:08 |
| S58 | 566  | (361/737.ccls.) and @ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/08 13:10 |
| S59 | 600  | (710/1.ccls.) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/08 13:12 |

## EAST Search History

|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S60 | 122 | (710/13.ccls.) and @ad<"20010802"                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/08 13:14 |
| S61 | 313 | (710/302.ccls.) and @ad<"20010802"                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/08 13:20 |
| S62 | 10  | ("4851654" "5850230" "6209077" "6023713" "6393206").pn. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/08 13:20 |
| S63 | 0   | (nand with flash with \$4linear) and @ad<"20010802"     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/29 07:45 |
| S64 | 4   | (nand with flash same \$4linear) and @ad<"20010802"     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/29 07:46 |
| S65 | 0   | (nand with flash same nonlinear) and @ad<"20010802"     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/29 07:46 |
| S66 | 0   | (nand with flash same non-linear) and @ad<"20010802"    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/29 07:46 |
| S67 | 176 | (flash same non-linear) and @ad<"20010802"              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/29 07:46 |
| S68 | 59  | (flash with non-linear) and @ad<"20010802"              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/29 07:48 |
| S69 | 22  | (flash with memory same non-linear) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/29 08:30 |



## EAST Search History

|     |      |   |   |    |     |                  |
|-----|------|---|---|----|-----|------------------|
| S70 | 2    | ("20010037420").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/09/29 13:31 |
| S71 | 2    | "5850230".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/09/29 13:31 |
| S72 | 0    | (map same applet same (smart with card)) and @ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/03 08:18 |
| S73 | 303  | (map same applet) and @ad<"20010802"                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/03 08:18 |
| S74 | 122  | (map same (smart with card)) and @ad<"20010802"             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/03 08:18 |
| S75 | 3054 | (235/380.ccls.) and @ad<"20010802"                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/03 13:04 |
| S76 | 663  | (710/62.ccls.) and @ad<"20010802"                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/03 13:04 |
| S77 | 880  | (711/103.ccls.) and @ad<"20010802"                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/03 13:04 |
| S78 | 295  | (710/300.ccls.) and @ad<"20010802"                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/03 13:04 |
| S79 | 426  | (710/301.ccls.) and @ad<"20010802"                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/03 13:04 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S80 | 931 | (235/382.ccls.) and @ad<"20010802"                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/03 13:04 |
| S81 | 371 | (710/72.ccls.) and @ad<"20010802"                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/03 13:05 |
| S82 | 432 | (711/115.ccls.) and @ad<"20010802"                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/03 13:05 |
| S83 | 570 | (361/737.ccls.) and @ad<"20010802"                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/03 13:05 |
| S84 | 616 | (710/1.ccls.) and @ad<"20010802"                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/03 13:05 |
| S85 | 125 | (710/13.ccls.) and @ad<"20010802"                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/03 13:05 |
| S86 | 332 | (710/302.ccls.) and @ad<"20010802"                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/03 13:08 |
| S87 | 6   | US-6268788-\$.DID. OR<br>US-6038320-\$.DID. OR<br>US-6052576-\$.DID. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/03 14:04 |
| S88 | 16  | cleary.xa.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/03 14:04 |
| S89 | 24  | cleary.xa.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 06:58 |

## EAST Search History

|          |      |  |   |    |     |                  |
|----------|------|--|---|----|-----|------------------|
| S94      | 17   | ("mass storage" same card same decompress\$3) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/18 07:35 |
| S95      | 1127 | ("mass storage" with card) and @ad<"20010802"                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/18 07:35 |
| S96      | 19   | ("mass storage card") and @ad<"20010802"                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/18 08:12 |
| S97      | 2    | ("20050146491").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/18 07:55 |
| S98      | 108  | ("hard disk card") and @ad<"20010802"                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/18 08:13 |
| S99      | 30   | ("hard disk card" same (\$5process\$3 cpu mpu)) and @ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/18 08:13 |
| S10<br>0 | 30   | ("hard disk card" same (\$6process\$3 cpu mpu)) and @ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/18 08:21 |
| S10<br>1 | 3    | ("hard disk card" same decompress\$3) and @ad<"20010802"           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/18 08:25 |
| S10<br>2 | 20   | ("dvd card") and @ad<"20010802"                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/18 09:25 |
| S10<br>3 | 2016 | ("graphics card") and @ad<"20010802"                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/18 09:25 |

## EAST Search History

|          |      |  |   |    |    |                  |
|----------|------|--|---|----|----|------------------|
| S10<br>4 | 33   | ("graphics card" with decompress\$3) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 09:30 |
| S10<br>5 | 1611 | (((\$6process\$3 adj card) same (memory storage)) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 09:31 |
| S10<br>6 | 955  | (((\$6process\$3 adj card) with (memory storage)) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 10:15 |
| S10<br>7 | 0    | (((\$6process\$3 adj card) with (((no?) adj random) adj (memory storage))) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 09:41 |
| S10<br>8 | 0    | (((\$6process\$3 adj card) with (((non) adj random) adj (memory storage))) and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 09:41 |
| S10<br>9 | 0    | (((\$6process\$3 adj card) with ((nonrandom) adj (memory storage))) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 09:41 |
| S11<br>0 | 16   | ("5613095"   "5752082"   "5794014"   "5809245"   "5822547"   "5907686"   "5912710"   "5923754"   "5949408"   "5949955"   "5974472"   "5987106").PN. OR ("6047342").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/05/18 09:42 |
| S11<br>1 | 6    | US-6268788-\$.DID. OR<br>US-6032320-\$.DID. OR<br>US-6052576-\$.DID.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 09:48 |
| S11<br>2 | 3781 | (((\$6process\$3) same (flash with card)) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 12:52 |

## EAST Search History

|          |      |   |   |    |    |                  |
|----------|------|---|---|----|----|------------------|
| S11<br>3 | 6972 | ("flash memory").ti. and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 12:52 |
| S11<br>4 | 267  | ("flash memory" same benefits) and @ad<"20010802"                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 12:54 |
| S11<br>5 | 1792 | ("flash memory" same "mass storage") and @ad<"20010802"                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 12:55 |
| S11<br>6 | 1234 | ("flash memory" with "mass storage") and @ad<"20010802"                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 12:55 |
| S11<br>7 | 10   | ("flash memory" with "mass storage" same (smartcard "smart card")) and @ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 13:37 |
| S11<br>8 | 8827 | (processor with memory with interface with bus) and @ad<"20010802"                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 13:38 |
| S11<br>9 | 13   | (processor with memory with interface with "single bus") and @ad<"20010802"           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 14:06 |
| S12<br>0 | 2    | "6122175".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 13:50 |
| S12<br>1 | 12   | (latency with "single bus") and @ad<"20010802"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 14:29 |
| S12<br>2 | 25   | ("well known" with "single bus") and @ad<"20010802"                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 14:34 |

## EAST Search History

|          |        |   |   |    |    |                  |
|----------|--------|---|---|----|----|------------------|
| S12<br>3 | 1      | (reduce? near2 pins with "single bus") and @ad<"20010802"                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 14:35 |
| S12<br>4 | 1      | (reduce? near3 pins with "single bus") and @ad<"20010802"                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 14:35 |
| S12<br>5 | 1      | (reduce? near4 pins with "single bus") and @ad<"20010802"                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 15:07 |
| S12<br>6 | 350    | (flash same (nonlinear non-linear "non linear")) and @ad<"20010802"                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 14:55 |
| S12<br>7 | 143    | (flash with (nonlinear non-linear "non linear")) and @ad<"20010802"                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 14:55 |
| S12<br>8 | 31     | (flash with (nonlinear non-linear "non linear") same (memory storage)) and @ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 14:55 |
| S12<br>9 | 0      | (reduce? near4 pins with (multidrop multi-drop)) and @ad<"20010802"                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 15:08 |
| S13<br>0 | 351931 | (bus (multidrop multi-drop)) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 15:08 |
| S13<br>1 | 760    | (bus with (multidrop multi-drop)) and @ad<"20010802"                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 15:08 |
| S13<br>2 | 38     | (bus with (multidrop multi-drop) same reduce?) and @ad<"20010802"                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/19 10:18 |

## EAST Search History

|          |     |  |   |    |    |                  |
|----------|-----|--|---|----|----|------------------|
| S13<br>3 | 465 | ("smart card" same (audio video) same process\$3) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/19 10:28 |
| S13<br>4 | 259 | ("smart card" same (audio video) with process\$3) and @ad<"20010802"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/19 12:18 |
| S13<br>5 | 0   | ("smart card" same ("dvd decoder")) and @ad<"20010802"                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/19 12:19 |
| S13<br>6 | 30  | ("smart card" with ((video audio) with stream)) and @ad<"20010802"     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/19 12:49 |
| S13<br>7 | 1   | ("smart card" same interface with cache) and @ad<"20010802"            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/19 12:51 |
| S13<br>8 | 2   | ("smart card" same cache with buffer) and @ad<"20010802"               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/19 12:52 |
| S13<br>9 | 2   | ("5418752".pn.) and @ad<"20010802"                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/19 12:54 |
| S14<br>0 | 2   | ("5172338".pn.) and @ad<"20010802"                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/19 13:27 |
| S14<br>1 | 2   | (prerecord\$2 same (audio video) same "smart card") and @ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/19 13:28 |
| S14<br>2 | 2   | (prerecord\$2 with (data) same "smart card") and @ad<"20010802"        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/19 13:41 |

## EAST Search History

|          |     |   |   |    |    |                  |
|----------|-----|---|---|----|----|------------------|
| S14<br>3 | 113 | (map same "smart card") and<br>@ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/19 13:42 |
| S14<br>4 | 300 | (710/300.ccls.) and<br>@ad<"20010802"         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/20 10:55 |
| S14<br>5 | 675 | (710/62.ccls.) and<br>@ad<"20010802"          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/20 10:55 |
| S14<br>6 | 126 | (710/13.ccls.) and<br>@ad<"20010802"          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/20 10:55 |
| S14<br>7 | 437 | (710/301.ccls.) and<br>@ad<"20010802"         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/20 10:55 |
| S14<br>8 | 382 | (710/72.ccls.) and<br>@ad<"20010802"          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/20 10:55 |
| S14<br>9 | 436 | (711/115.ccls.) and<br>@ad<"20010802"         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/20 10:55 |
| S15<br>0 | 896 | (711/103.ccls.) and<br>@ad<"20010802"         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/20 10:55 |
| S15<br>1 | 340 | (710/302.ccls.) and<br>@ad<"20010802"         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/20 10:55 |
| S15<br>2 | 572 | (361/737.ccls.) and<br>@ad<"20010802"         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/20 10:55 |



## EAST Search History

|          |      |                                       |   |    |    |                  |
|----------|------|---------------------------------------|---|----|----|------------------|
| S15<br>3 | 627  | (710/1.ccls.) and @ad<"20010802"      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/20 10:55 |
| S15<br>4 | 942  | (235/382.ccls.) and<br>@ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/20 10:55 |
| S15<br>5 | 3083 | (235/380.ccls.) and<br>@ad<"20010802" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/20 10:55 |